

# The Tech

VOL. XXIV. No. 86.

BOSTON, MASS., MONDAY, JUNE 5, 1905

PRICE FIVE CENTS.

## 1905 CLASS DAY.

### Programme and Speeches.

The 1905 Class Day officers are: First Marshal, Grosvenor DeWitt Marcy; Second Marshal, Thomas Edward Jewett; Third Marshal, Leonard Theaker Bushnell; President of 1905, William Duffield Bell Motter, Jr.; Orator, Norman Lombard; Statistician, Edwin Bruce Hill; Prophet, George Bayard Jones; Presentation Orator, Roswell Davis.

The exercises held this afternoon in Huntington Hall were as follows:

Address by Class President, W. D. B. Motter, Jr.

First Marshal's Address, G. D. W. Marcy.

Statistics, E. B. Hill.

Prophecy, G. B. Jones.

Presentation of Gifts, R. Davis.

Oration, N. Lombard.

Presentation of Frieze, W. D. B. Motter, Jr.



President's Address, W. D. B. MOTTER, JR.

### LADIES AND GENTLEMEN:

In behalf of the Class of 1905, I take pleasure in welcoming you to-day, a significant day to us, the members of the Class. We now bring to a close our undergraduate life, and are about to enter into a new phase, differing in many ways from the past life. We look back upon four years of college life—Institute life, to be more correct—and we look forward to the future, hoping that it may be as fruitful as our years at Tech.

To our parents we extend our warmest welcome. By your indulgence and constant care, you have made possible for us a training that will help us always. It gives us pleasure to have you see the en-

vironments of our last four years; we know they interest you.

To our Professors and Instructors we extend our heartiest welcome. To you we are indebted for your guidance and instruction during our courses at the Institute. It is an honor to welcome you to our Class Day.

We welcome our friends, knowing how much we owe to you for your kindly interest in us throughout our life at the Institute.

During our Senior year we chose, by popular vote, a man whose loyalty to the Class and the Institute fits him for the highest honor we can bestow—the office of First Marshal. I have the honor to introduce Grosvenor DeWitt Marcy.



First Marshal, G. D. W. MARCY.

MR. PRESIDENT, CLASSMATES AND FRIENDS of the Class of nineteen hundred and five.

To-day we are celebrating our last day as undergraduates. To-morrow will see our Commencement. Those exercises will be of a more serious nature, and will fill us with a sense of our new responsibilities as educated men. We shall then ask ourselves if we have the true Institute Spirit, which is to have joy in our work, and to uphold our Founder's ideal, that the study of man's achievement in Natural Science is a true developer of men. If we have this Institute Spirit we have the best our four years could bring us, and are ready to begin in a larger school to-morrow.

To-day, however, is our day of festivity, of rejoicing upon our coming of age as a Class. We now remember the happy events which have filled the last four years, and are glad that as a Class we have reached our full growth.

At this time we wish to thank you, our parents, for the sacrifices

you have made to send us here, and you, members of the Faculty, who have brought us to this day, and have always given us your best, in and out of Class.

Class Day at Tech has always been a simple event, and in the exercises which follow we shall try to show you what we are as a Class, what we have been, and what we hope to be.

We have learned to read and express valuable truths in tables of figures. I will introduce as the man most expert in this difficult art, our statistician, Edwin Bruce Hill.



MR. MARCY, introducing the Prophet.

The advance of science is marked by its application to new fields. Until now, forecasting the future has been given little attention except by superstition. To-day it has been reduced to an exact science. By plotting the data gathered by our statistician, a member of our Class has divined our personal equations. Expanding these by Maclaurin's Theorem, he has found at just what angle we will all enter Heaven. The first thesis in this course of Applied Prognostication will now be read by our Prophet, George Bayard Jones.

Prophet, G. B. JONES.

MR. MARSHAL, LADIES AND GENTLEMEN:

According to our statistician, our average age is twenty-two years. Knowing the events of a man's life for as long a period as that, it certainly ought to be possible to tabulate his characteristics and habits, especially those of the last four years, and by careful deduction arrive at a future condition.

In order to secure data of any value, we should, according to one of our worthy professors, make tests

on full-sized specimens. We will begin with Bob Lord. Although Lord may easily appear to the unaided eye as a full sized specimen at present, he is not a circumstance to what he will be in a few years. We have here a plot with abscissae as years and ordinates as weights, and a number of points located, through which, if we draw a smooth curve, we can with reasonable accuracy extend it to cover a period of from ten to twenty years ahead. A mere glance at this curve shows us that in fifteen or twenty years Bob will be paying excess railroad fare and will have his picture inserted in the Mellin's food testimonials.

Some of Bill Gounlock's friends are making bets on how long after graduation it will be before Bill exhibits his first moustache. Inasmuch as Bill shaved once Freshman year, twice Sophomore year, once for every full moon Junior year, and whenever he needed it Senior year, it is easy to see that sixty years from



now he may be doing the "Bearded Lady" stunt with Barnum & Bailey.

Turning to view the literary horizon, we cannot but see Lombard, a bright and shining light. The speedy way he made the Tech Board, his rapid rise from reporter to editorial staff, and then to managing editor, shows what may be expected of him in this line. He confided to me only last week that he had been offered a job by the *Black Cat*, and with this as a stepping stone we can see Lombard mounting up and up through the *Boston American* and the *Philistine* to that highest of all offices, editor-in-chief of the *Ladies Home Journal*, with Strickland doing the "Side Talks with Girls."

We now turn to a plot showing the awful consequences of fussing.

(Continued on page 6.)

# The Tech

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In charge of this issue: J. DANIELS, 1905.

Monday, June 5, 1905.

WILLIAM A. NICHOLS, PRINTER, 208 SUMMER ST., REAR

The officers of THE TECH for next year are as follows: C. T. Bartlett, '06, Editor-in-Chief; Willis Ranney, '06, Managing Editor; Malcolm McLeod, Business Manager.

Some comment has been current upon the fact that seats for Tech Night to-morrow evening are being sold at an advance of The Pops. twenty-five cents over regular Pop prices. In order to insure that none but Technology adherents obtain seats it was necessary for the Alumni Committee to buy up the entire house, and to accomplish this and to cover the many other expenses incidental to assuring a rousing gathering the extra charge was found necessary. However, the tickets are still being sold under value, for not even the most enthusiastic can believe that Tech night is worth less than a dozen routine Pop Concerts.

The plan of having a reunion meeting every third June after graduation, which has been proposed by the graduating class, and Three-Year Reunions. which will it is hoped institute a custom to be followed by all succeeding classes, is a great step in advance. Heretofore class reunions have been held at irregular times and utterly

without system, and in consequence the class organizations have in general become weaker with each succeeding year after graduation.

It may at first sight seem that these three-year reunions would interfere with the general five-year Alumni Reunions, but this could hardly become serious, for the new plan for class gatherings is simply a systemization of the present erratic meetings. Further, it should actually augment the enthusiasm for the quinquennial meetings by promoting that strong class spirit without which the spirit of the Alumni as a whole must be nil.

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## COMMENCEMENT.

The graduation exercises will be held on Tuesday afternoon, June 6, at two thirty in Huntington Hall. Abstracts of theses will be read, and President Pritchett will make an address. After the exercises, the buildings will be open to visitors.

## Candidates for the Degree of Master of Science.

James McFarlan Baker, S. B., Franklin Murphy Chace, S. B., Lewis Cutler Clarke, Jr., S. B., William Bailey Fogarty, Julius Augustus Furer, Herbert Goldstein Moise, S. B., Frank David Hall, Sidney Morgan Henry, Alfred Henry Jacobs, S. B., Elbert Emerson Lochridge, Lewis Bowen McBride, George Merrill Magee, S. B., Frederic Nickerson, S. B., George Stanley Radford, Henry Woodbury Rowe, S. B., Ross Pelton Schlabach, Clayton Miller Simmers, Leon Hills Smith, S. B.

## Candidates for the Degree of Bachelor of Science.

I. Civil and Topographical Engineering; II. Mechanical Engineering; III. Mining Engineering and Metallurgy; IV. Architecture; V. Chemistry; VI. Electrical Engineering; VII. Biology; VIII. Physics; IX. General Studies; X. Chemical Engineering; XI. Sanitary Engineering; XII. Geology; XIII. Naval Architecture.

Fred Hathaway Abbott, VI., Charles Robert Adams, I., Chester Allen, I., Roy Hutchins Allen, III., William Wetherall Ammen, A. B., XIII., Claude Aurelius Anderson, XIII., Carlton Elliot Atwood, VI., John Ayer, I., Samuel Henry Ayers, VII., Courtlandt Woodruff Babcock, Ph.D., VI., Joseph Cheney Baker, II., William Gilbert Ball, III., James Evans Barlow, I., James Phillips Barnes, VI., Edward Andre Barrier, V., Edward Taylor Barron, III., Allan Hanscom Barrows, V., George Herbert Barrows, IV., Edward Hale Bartlett, X., Robert Stanley Beard, I., William Herbert Beers, VII., Arthur Field Belding, II., Frederick Gardner Bennett, I., Stuart Wells Benson, X., Walter Gregory Bent, X., William Peet Bixby, II., William Hildreth Blakeman, A. B. XIII., Fernando Moreno Blount, IV., Charles Reid Boggs, V., Charles Edward Broad, II., Joseph Henry Brown, Jr., II., Frank Wilbur Brownell, B. A., VI., Lloyd Thomas Buell, III., Henry Arthur Buff, III., Edward Arthur Burkhardt, XIII., Walter Burns, V., Eugene Burton, III., Leonard Theaker Bushnell, B. A., II., Thomas Breckenridge Cabell, VI., Sydney Atmore Caine, XIII., Frank Milton Carhart, I.,

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(Continued on page 11.)

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## SENIOR DINNER

A miniature diploma tied with red and gray ribbons awaited each one of the hundred and fifty men who attended the Senior Dinner last Thursday evening at the Westminster. The "diploma" was none the less welcome because it was the menu card. Dinner was served shortly after eight o'clock, and was interrupted by Mr. Humphreys, who brought over the graduation notices. After dinner President Motter introduced the toastmaster, L. T. Bushnell, who kept up good humor by his new stories and fitting introductions. President Pritchett was the first speaker of the evening. He urged the men who had failed to be recommended for a degree to maintain their courage and faith. To those who were going out he recommended modesty as a valuable asset. "A man loses efficiency at the time when he begins to realize his own importance," Dr. Pritchett declared. On the merger question he would say but little. One thing that has been brought out prominently is that "Technology men may differ in opinion, but they still maintain their regard."

Dean Burton spoke of the work of the Faculty in recommending the men for degrees. "The judgment of the Faculty is not infallible," he said, "and it may be equally true that we have made as great a mistake in not recommending one man as in recommending the other fellow." The Dean closed by speaking of some of the men who have dropped out of the class in the past.

Mr. Samuel Cabot of the Corporation was next called upon. He said that he had spent four years at Tech in hard work and had never received a degree. He urged the men to be hopeful. "The optimistic does things, the pessimist never succeeds."

Professor Clifford believed that the Degree of S.B. means something accomplished. It stands for conscientious years of work, and here lies its real meaning. The ability to deal with men is just as important as the technical training which a man receives, he declared, and he paid tribute to Dr. Pritchett's efforts to make men as well as engineers.

Professors Spofford and Winslow spoke of the importance of Alumni association and its relation to the development of fellowship and democracy. Mr. Blachstein congratulated the men on their success and urged the importance of duty. William Green outlined a plan for inaugurating the custom of having triennial reunions of the class. This would bring the men to Technology every three years, and keep them in closer touch with the undergraduate bodies as well as with themselves.

After the speech making was over the men assembled outside the hotel and then marched around the Institute buildings. Class and school cheers were given for each one. The men finally gathered on Rogers steps and in a blaze of red fire cheered Rogers, Technology, and 1905.

## ALUMNI RECEPTION.

That an informal reception with stunts is a complete success, and in many ways superior to the old formal arrangement, was demonstrated last Friday evening at the Alumni Reception to the graduating class. The drawing rooms in Eng. B held a large, enthusiastic body of Alumni and graduating students. Each man present was provided with a card which bore his name and class. Many alumni also were present.

The Class of 1905 with a volunteer band at its head marched into the assembly-room with flying colors. After dress parade was over the formal exercises began. Col. F. L. Locke, President of the Alumni Association, was the first speaker. He told of the change of arrangement in holding the reception, and introduced G. H. Barton, '80, as one of the members of the class which graduated twenty-five years ago. Professor Barton told of conditions at Technology during his undergraduate days. He welcomed the Class of 1905 into the Alumni body, in behalf of the Association. President Motter then responded and thanked the Alumni for their expressions of good will.

Professor A. G. Robbins presented the results of the vote on the merger question. Of 1809 graduates voting, 488 favored and 1351 opposed; of 1060 non-graduates, 376 favored and 684 opposed the plan. This makes a ratio of 3 to 1 of the graduates, and a ratio of 2 to 1 of the non-graduates opposed. A summary of 500 letters received was read to explain the attitude taken by the different voters.

Dean Burton took the place of President Pritchett, who had to be present at the commencement exercises at the New Bedford Textile School. The Dean referred to the active part taken by the Class of 1905 in undergraduate interests, and expected them to be equally active as Alumni. He spoke on the merger question and its relation to the question of student life. He pointed out the possibilities of having dormitories or student houses on the strip of land adjacent to Technology Field, and hoped that the Alumni would take this matter up as they had the Walker Memorial.

After 1905 had mounted its banner with the other classes everybody adjourned for refreshments. The rest of the evening was spent carrying out the stunts. Mr. J. F. Beal, '75, recited some of the athletic feats performed by 1905. The greatest thing the Class had done, besides winning two Field Days, was to be able to get into a certain lecture room after five minutes past the hour by means of a spiral staircase. On behalf of his class he presented a large cup for breaking the "thirty years' Physical record."

Mr. I. W. Litchfield, '85, presented a drum to 1905 in order that it might make its presence known to the world. "It is not wealth nor

power nor state, but get up and git that makes men great."

Mr. E. L. Hurd, '95, stated that his class had decided to present to 1905 "a receptacle, which, when properly and regularly pushed, is said by those who should know, to be the best preserver and strengthener of infant ideas that has ever been produced." He then presented a miniature baby carriage.

1905's star aggregate of soldier musicians, consisting of Lord, Davis, Bushnell, Jewett, Jones, Senger, Barnes and Buff, commanded by Corporal Whitney, then gave a daring exhibition of wall scaling. The rest of the evening was spent in rehearsing Tech songs for the Pop Concert.

## MUSICAL CLUBS CONCERT.

The concert tendered by the combined Glee, Banjo, and Mandolin Clubs to the Senior Class was one of the most enjoyable functions of Commencement Week. Huntington Hall was crowded with an enthusiastic and receptive audience. The program was well chosen and excellently rendered.

## BACCALAUREATE SERMON.

The Baccalaureate Sermon was Given at Trinity Church, June 4, at 4 P.M., by Rev. Joseph N. Blanchard, D.D.

The following is a summary:

"My Father worketh even until now and I work." — St. John 17:5.

Contrast the life you leave and the life before you. Two words fairly describe this — Student, Worker. Main thing in your past, study; main thing in your future, work. A break between the two lives. Modern education by practical methods tries to do away with this, but no methods can. Dependence marks one life, independence the other. How bridge over the gulf? By emphasizing *personality* — your own tendencies? Good, but danger of becoming self-absorbed, of making life mere competition with others.

The issue then a moral one, one of character; what you are, not what you do. Character rises as high as its source. The highest of all sources is God. This is God's world, your work is His work, men are His children. This alone saves from self-conceit, self-absorption. Educated men need to be sound in heart. See the alliance today of industrial interests with graft, corruption, money-making placed above the condoning of wrong — dishonesty. Jesus Christ gives true view of life. "My Father worketh even until now and I work." He teaches direct relation of God's work with our work. His conception the final one. You go out to build up not to break down — to give yourself to the world's need. You are a worker with God. The Son of Man is your brother.

## SENIOR PORTFOLIO.

The *Portfolio* Committee wishes to announce that owing to unavoidable delays the book will not be ready for distribution until Tuesday, June 6. It will be impossible to supply all the men at this time, and so it is desired that those men who leave Tuesday should receive their *Portfolios* first. If those men will see members of the Committee, the latter will arrange for this distribution. It is hoped that those men who can wait until Wednesday will do so.

Mr. Day Baker, of the Sparrell Print, who is in charge of publishing the *Portfolio*, desires to announce that any man may obtain the cut of his photograph on payment of one dollar.



T. E. JEWETT, Second Marshal.

## SENIOR DANCE.

The Senior Dance will be held this evening at nine in Brandon Hall, Beacon Street, Brookline. About fifty men have subscribed. There will be twenty-five dances. Dance orders are card cases.

## POP CONCERT PROGRAM.

1. March, "Black Bess" *Strube*
2. Waltz, "I Love You" *Waldteufel*
3. Selection, Prince of Pilsen *Luders*
4. a. "Prexy for Aye"
- b. "On Rogers Steps"
- c. "Take Me Back to Tech"
5. College Overture *Moses*
6. a. "Retrospection"
- b. "The Best School of All"
7. Overture, "Chemical Maid"
8. a. "The Janitor's Union" *Bullard*
- b. "The Stein Song" *Tech '87*
9. Overture, "Orpheus" *Offenbach*
10. Selection, "Yankee Consul" *Robyn*
11. Waltz, "Grubenlichter" *Zeller*
12. March, "Hussar Drill" *Zach*

Sections on the floor have been assigned to the various classes, and it is expected that the men as far as possible will sit with their classes, so as to make the singing and cheering more effective.





### HUNTINGTON HALL FRIEZE.

Although numerous articles on the Frieze have appeared in *The Tech* and in the *Technology Review*, and many facts relating to it have been touched on in to-day's exercises, a review of some of the more important events in its history will not be out of place.

In 1870, President Rogers and several members of the Corporation appointed Mr. Paul Nefflen to carry out a decorative scheme of mural decoration for Huntington Hall. Mr. Nefflen submitted several panels among which were the old seal of Technology, Chemistry, Mining Engineering, and Architecture. Outside financial assistance was then sought, and different manufacturers in Massachusetts contributed sufficient to have their respective processes displayed on the walls. In this way panels representing Printing, Shipbuilding, Iron-Casting, Brick-Making, and the like were completed. All these drawings were in water color, directly on the plaster. They remained until the summer of 1898 when they were destroyed during a renovation of Huntington Hall.

Through the active efforts of several men who had a genuine interest in the old Frieze, it became possible in 1904 to secure the original drawings made by Mr. Nefflen. These were bought, and with them a desire to restore the old panels was awakened. The matter was taken up by these old friends and by the Architectural Department, and it was finally decided to restore the Frieze as fast as funds could be raised. The Senior Class at once subscribed nearly three hundred dollars to begin the work, and the results from this impetus may be seen in the seven panels presented to-day.

This in brief is the history of the old panels which had a certain in-

definable relation to Technology. Not only was the Frieze the first thing of its kind in America, but it had a quiet dignity, simplicity, and earnestness which reflected the spirit of true craftsmanship. Huntington Hall and the Frieze came to be associated with one another, and the destruction of the panels caused a righteous indignation among the community, who felt that Boston as well as Technology had lost something distinctively unique. With the reawakened interest in the panels, and the announcement that an effort would be made to restore some part of the original Frieze, the public was equally ready to applaud.

The panels which have been presented to-day were begun during the early part of March. The work was taken up under the direction of the Architectural Department, and assigned to the fifth-year men. The problem was one in composition, embodying the results of the life-class work. After the main features of the design were worked out, models were used in order to perfect the positions and attitudes of the figures. In this way the seven panels were worked up. The center panel represents the seal of Technology. The large panel on the left stands for Mechanical Engineering; the large panel on the right for Civil Engineering. The smaller panels represent the Arts and Sciences.

The attempt has not been made to restore the old Frieze, but rather to recall it. How successful the effort has been may be judged by the excellent character of the work done. Great credit is due to the fifth-year men who have worked willingly on the panels; and to Mr. W. Felton Brown, to whose untiring efforts much of the success is due, and through whose interest it was made possible to present the seven panels.

### 1905 CLASS DAY.

(Continued from page 1.)

(Here followed explanations of two curves of "acquaintance" and "fussing efficiency" which applied to Dean, Jewett, and Graesser.)

We have learned that, given certain reagents under fixed conditions, certain reactions are bound to occur. Let us consider a few. For example:

Class Dinner + W. Whittemore = White Vest.

Twenty years from now the reaction will probably be:

Whittemore + 20 years = Large White Vest + Chinese Laundry, which means that Whit will probably be the president of the Laundry Trust.

It requires but little effort to express the reaction between Sam Houck and a good square meal. In the future it will be the same as it is now, and we may confidently expect at some later date to see a well-known sign reading: "Sam Houck, successor to Charlie Wirth."

With his ballet skirts on, the reaction between Walter Butts and the stage floor is so slight that you wouldn't notice it. We all see for him a future as professor of calisthenics and dancing at Wellesley.

(Following this were more reactions applying to Elliott, Lewis and others.)

Mr. MARCY, introducing the Presentation Orator.

Certain men in our Class have achieved fame in one way or another. This is eminently the fitting time to recognize such achievement. It has been the task of one of us to seek out the hidden as well as the seen, and to reward each man according to his merits. I introduce to you our Presentation Orator, Roswell Davis.

Presentation Orator, ROSWELL DAVIS.

### LADIES AND GENTLEMEN:

To-morrow the government and faculty of the Massachusetts Institute of Technology confer on certain members of our Class, diplomas in testimony of the proficiency shown in the different courses of instruction. We appreciate the fairness of the said government and faculty in their treatment of us, but, as it must of necessity be in dealing with a class so large, there are many men here, notable for their accomplishments in the various lines of work who are to receive no special recog-



nition. It seems hardly fair after their four long years of weary toil, that these men, far above the rest of us, should remain unrewarded for their unselfish endeavors. The Class, realizing this, has taken upon itself the duty of honoring these deserving classmates, and has entrusted to me the presentation of the prizes. I ask these men as their names are read upon the roll of honor, to come upon the platform and receive their just rewards.

(Here followed the presentation of the gifts.)



MR. MARCY, introducing the Orator.

The best we have got from the Institute is the hardest to put into words. The formation of our ideals, the effect of tradition on these ideals, and the effect of our ideals on tradition, is a definite subject but difficult of expression.

To say for the Class what each man feels, but cannot say for himself is the task of our Orator, Norman Lombard.



Orator, NORMAN LOMBARD.  
MR. MARSHAL, LADIES AND GENTLEMEN:

Few of us realize the part that is played by tradition in our practical every-day lives. From infancy to old age our manners and actions are determined, our ideals are fixed, our moral standards are set by traditional influences. The child on its mother's knee hears the story of "Jack the Giant Killer," and resolves, unconsciously perhaps, to himself become a big, strong, sturdy man, that he may overcome the giants, unshaped as yet even in his own mind, which may try to block his path in life.

When he has grown beyond this delightful age of fairy stories, the influence of family tradition becomes manifest. What boy is not stirred to depths of patriotic resolve upon hearing related the valiant and heroic deeds of an ancestor in a great war for his country's liberty; and what boy, knowing that his family history is replete with instances of exceptionally good citizenship and straightforwardness does not resolve that he, at least, will not disgrace the family name.

At college, tales of the athletic prowess, of the self-forgetful honesty, of the manliness and courage of men who have gone before, have a most wholesome influence in making of the boy a pride to his college, and a manly man. That the governments of our schools recognize the value of these traditions is shown by the constant effort made to foster and perpetuate them.

Upon us collectively, as a nation, even more than as individuals, tradition has a most potent influence. We cannot attribute entirely to foresight the powerful influence which the framers of the Constitution have upon our national policy to-day. No man could foresee the changes of the last hundred years, and tradition is to be thanked for this great service to the country.

As a nation we have numerous traditions which are easily recognized as such. "For the people, of the people, by the people," is a phrase which typifies the help given by tradition to law. Self-seeking politicians of the lower order may for a time obscure the underlying principle of our government, but ere long the people are stirred to action by the sentiment of this tradition, and the reins of government again fall into proper hands. No despot, no dishonest politician, no inefficient executive can long hold power in the face of this tradition.

Another American tradition which

may be cited is that of respect of law. I take the opportunity of mentioning this tradition as it is one which appears to be fading from the consciousness of our people, and yet it is the very corner stone of our government. Without respect of law, our republic cannot endure. "Obey the law, because it is the law" is a sentiment we hear expressed less and less as time goes on. Every American citizen must take unto himself the duty of cultivating in himself this respect of law. Legislatures must cease passing laws of convenience, or laws which are to be enforced only at times. Every law on the statute books must be constantly enforced.

An instance of flagrant disrespect of law is shown in the history of one of Massachusetts' conspicuous sons. This man went into a Civil Service examination, writing on his paper the name of a friend, thus intending to secure for that friend a lucrative position under the government. He was discovered, tried, convicted and sentenced to a term in jail. While serving his time he was elected an alderman of the city of Boston, and upon being freed he was met at the jail by a committee who honored him as a martyr. That night, in a speech to his constituents, he promulgated the policy that if any man thought a law unfair, unjust, or unwelcome he had a perfect right, and in fact was duty bound, to break that law. For this sentiment he was cheered to the echo. Do you not all hold your breaths and say in your hearts that this is a most dangerous policy to have preached to the people? Where would it carry us? say you. But yet, I will venture to say, there is many a person in this room who has committed an offense similar in certain respects. You have violated the law against throwing paper in the street. There is the law compelling teams to keep separated by at least ten feet when

passing crossings, and this you have violated. There is the automobile speed law, and what of the customs duties?

The man who has his bill of lading underwritten, or who does not declare all the goods upon which he should pay duty, or who bribes a customs official is on the level with the man who writes the name of a friend on a Civil Service examination. And does not the man who escapes the customs duties often brag of it to his friends? Wherein is the difference between the two violations of the law? Both men are much more enemies of the republic than is that man who fires a hostile shot in war, and both men should be punished as the law demands.

In future ages when a great historian is relating the rise and fall of the United States of America he will call attention to no great battle on sea or land and mark it as the beginning of the end. This country will never undergo the disgrace of having a conquering army march its soil. Our great historian will call attention to the fact that this nation died, if it ever does die, from internal disintegration due to lack of respect of law.

So we must keep tradition alive. Its influence as an unwritten law aids greatly our written laws. In tradition is the real vitality of the nation, of institutions, and of the individual.

Through the weakness of the human memory for the details which give them life and for the circumstances which gave them their existence, traditions are likely to be perishable and short lived.

A symbol often proves of vital assistance in preserving a tradition. For this reason we have our monuments on our fields of battle and our tablets on spots which are intimately connected with the history of our country. The same for our college.

As you came up our Rogers steps and into our Rogers corridor you noticed two memorials to two great men. One of these men founded and the other built the great Industrial Institute whose guests you are to-day, and whose graduates we shall be to-morrow. We like to remember and to preserve as a tradition the qualities of these two men—the calm, firm endurance of the founder, which enabled him to fight on and create this school in the face of obstacles imposed by a great civil war; and the sagacity, wisdom, and resource of the builder which created a school which is known and respected throughout the world and whose degree, men seek with the greatest earnestness in their power.

Technology is yet a young school. Founded only in 1861 there has been no time for great numbers of traditions to cluster around its buildings and to inspire its students. Among its few traditions we may mention that spirit of democracy which makes every man the equal of every other man in the race for student honor; faculty recognition and ultimately the degree; the sincerity of purpose of its students; and their large capacity for careful assiduous labor.

There was at one time around this hall a frieze which symbolized an unmistakable Technology tradition—the nobility of labor. The frieze contained many panels, each portraying an artisan at his task—the mason with his trowel, the shipbuilder with his adze, the miner with his pick, the civil engineer with his transit, and many others. In them all labor was shown to be dignified and noble. The frieze remained for many years, a pride to the city of Boston and to Technology. One of the first mural decorations of its kind in America, it was at the same time a remarkable work of art. A scrub brush and a bucket of water consigned it one day to the realms of memory. The Class of 1905 desires to see perpetuated the tradition which the frieze so well symbolized. I would not leave you with the impression that Technology is but a Manual Training School, and that its graduates are to be figured as blacksmiths and masons. These are but symbols of what Technology stands for. As men in the world we intend to do our world's work. Where'er our destiny lead us, whate'er our labor be, we will do it nobly, with a will, with courage,

and with constant thanks to the school that has taught us the dignity and nobility of that labor.

MR. MARCY, introducing W.D. B. MOTTER, JR.

Our last official undergraduate act, as a Class, will now be performed by our President. (Here President Motter presented Frieze to the Institute.)

We thank you, our friends, for the interest you have shown in us to-day, and hope when we meet in the future, our friendship will be stronger for the exercises which are now over.

The Committee on the Cabot Medals has the honor to announce the following awards: Medals, C. B. Mayer, '05; A. T. Heywood, '06; A. E. Hartwell, '07; H. G. Pastoriza, '07; A. H. Keleher, '06. Honorable mention, L. D. Smith, '07; A. R. Hunter, '08; A. E. Green, '06; B. D. Johnson, '07.

THE TECH has received proof-sheets of the 1905 *Portfolio*. The work shows a decided improvement over last year's book, and is probably the best ever published at Tech.



L. T. BUSHNELL, Third Marshal

#### BRITISH EMPIRE ASSOCIATION.

The balloting for officers of the British Empire Association has resulted in the following elections: Chairman, C. A. Bettington; Vice-Chairman, H. D. Reed. For the remaining offices there was no election because of tie votes.

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## LIST OF PROMOTIONS.

Associate Professor Allyne L. Merrill to Professor of Mechanism. Associate Professor Edward F. Miller to Professor of Steam Engineering. Associate Professor Dana P. Bartlett to Professor of Mathematics. Assistant Professor Henry Fay to Associate Professor of Analytical Chemistry. Assistant Professor Charles L. Norton to Associate Professor of Heat Measurements. Instructor George B. Haven to Assistant Professor of Mechanical Engineering. Instructor Harrison W. Smith to Assistant Professor of Electrical Engineering. Instructor Charles Edward A. Winslow to Assistant Professor of Biology. Instructor William J. Driske to Assistant Professor of Physics. Instructor Walter S. Leland to Assistant Professor of Naval Architecture. Instructor Carroll W. Doten to Assistant Professor of Economics. Instructor Samuel P. Mulliken to Assistant Professor of Organic Chemistry. Assistant Walter H. Adams to Instructor in Mechanical Engineering. Assistant Edward J. Ruxton to Instructor in Mechanical Engineering. Assistant George W. Swett to Instructor in Mechanical Engineering. Assistant Theodore H. Taft to Instructor in Mechanical Engineering. Assistant Robert S. Williams to Instructor in Analytical Chemistry. Assistant Charles H. Porter to Instructor in Electrical Engineering. Assistant Henry W. Buhler to Instructor in Heat Measurements. Assistant Walter J. Gill, Jr., to Instructor in Physics. Assistant Eugene D. Forbes to Instructor in Physics. Assistant Daniel F. Comstock to Instructor in Physics. Assistant Harold A. Everett to Instructor in Naval Architecture. Assistant John W. Howard to Instructor in Civil Engineering. Assistant Arthur L. Goodrich to Instructor in Mechanical Drawing and Descriptive Geometry. Assistant Charles W. Sawyer to Instructor in Freehand Drawing.

## SOPHOMORE-FRESHMAN BASEBALL.

In a one-sided game, the Freshmen defeated the Sophomores 13-3 at Tech Field Tuesday, May 23.

## MINING ENGINEERING SOCIETY.

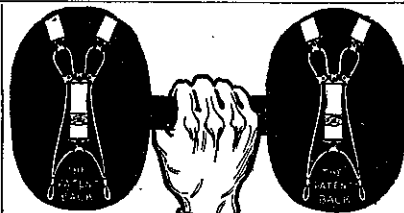
The last meeting of the Mining Engineering Society was held in Room 2, Rogers, on Saturday, May 27. The annual report of the Secretary showed that the Society has a membership of 107, of which 41 are new names. The report of the Treasurer showed a deficit of \$12.04. Prof. T. A. Jaggar, Jr., and Mr. C. E. Locke were elected honorary members, and the following undergraduates were elected to membership: McKay, Stephens, Mathison, Murphy, Lincoln, Willis, Kinnear, Ross, Bardwell, Ternan and Hirt of '06; and Lang, Rood, Phelps, Hamilton, Donnewald, Hastings, Davis, Greenburg, Emilio, Hampton, Trauerman, and Bancroft of '07. The following men were elected officers for the ensuing year: President, A. T. Heywood, '06; Vice-President and Treasurer, G. H. Ruggles, '06; Secretary, J. S. Coupal, '07; Executive Committee, G. F. Henderson, '06, and A. F. Bancroft, '07.

## AMERICAN CHEMICAL SOCIETY.

A regular meeting of the American Chemical Society was held on Friday, May 26, at 8 o'clock at 6 Lowell, to report on the progress of the investigations that have been carried on in Technology's research laboratory. The speakers of the evening were Prof. A. A. Noyes, Prof. W. D. Coolidge and R. D. Maily, '04, a graduate student who has been carrying on research work. Professor Noyes spoke on the establishment of the research laboratory, and Prof. Coolidge and Mr. Maily gave reports of the results of their research work.

## CALIFORNIA CLUB.

The first dinner of the California Club was held June 2 at the Nottingham. Addresses were made by L. F. Mesmer, President, and L. C. Hampton, Secretary of the Organization. The aim of the Club is to promote interest in Tech in their state, and also to promote good fellowship among its members.



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